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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/007,574	11/09/2001	Cesare Peschle	9855-26U3	3808	
570	7590 02/11/2003				
AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200			EXAM	EXAMINER	
			BELYAVSKYI, MICHAIL A		
PHILADELPHIA, PA 19103-7013			ART UNIT	PAPER NUMBER	
			1644	7	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n No.	Applicant(s)
Office Action Summary		10/007,574	PESCHLE, CESARE
		Examiner	Art Unit
		Michail A Belyavskyi	1644
Period fo	The MAILING DATE of this communicati n app or Reply	pears on the cover sheet with the c	rrespondence address
- External e	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to be application.	nely filed s will be considered timely. the mailing date of this communication.
1)⊠	Responsive to communication(s) filed on 09 N	<u>November 2001</u> .	
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-final.	
3) <u>□</u> Dispositi	Since this application is in condition for allowards closed in accordance with the practice under a con of Claims	ance except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.
4)⊠	Claim(s) <u>1-18,32,46,50 and 54</u> is/are pending	in the application.	
•	4a) Of the above claim(s) is/are withdrav	vn from consideration.	
5)	Claim(s) is/are allowed.		
6)□	Claim(s) is/are rejected.	•	
7)	Claim(s) is/are objected to.		
8) Application	Claim(s) <u>1-18,32,46,50 and 54</u> are subject to re on Papers	estriction and/or election requirem	ent.
	The specification is objected to by the Examiner		
10/1	The drawing(s) filed on is/are: a) accept		
11)□ T	Applicant may not request that any objection to the The proposed drawing correction filed on		
,	If approved, corrected drawings are required in repl	is: a) ☐ approved b) ☐ disapprov	/ed by the Examiner.
12)∏ T	The oath or declaration is objected to by the Exa		
	nder 35 U.S.C. §§ 119 and 120		
		main with a second of the control of	
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-	-(d) or (f).
	1. Certified copies of the priority documents2. Certified copies of the priority documents		
	 Copies of the certified copies of the priorit application from the International Bure se the attached detailed Office action for a list o 	eau (PCT Rule 17 2(a))	-
	knowledgment is made of a claim for domestic		
a)	The translation of the foreign language prover the translation of the foreign language proveknowledgment is made of a claim for domestic	isional application has been recei	ived.
Notice (2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Par	PTO-413) Paper No(s) tent Application (PTO-152)
 Patent and Trad TO-326 (Rev. 		on Summary	Part of Paper No. 7

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DETAILED ACTION

1. Applicant's amendment, filed 11/09/01 (6), is acknowledged.

Claims 1-18, 32, 46, 50 and 54 are pending.

Restriction Requirement

- 2. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 1-11, 13-17 and 46, drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using KDR1 antibody, classified in Class 435, subclasses 325, 384; Class 530, subclass 387.1; Class 424, subclass 93.7.
 - II. Claims 1-11, 13-17 and 46, drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using KDR2 antibody, classified in Class 435, subclasses 325, 384; Class 530, subclass 387.1; Class 424, subclass 93.7.
 - III. Claims 1-9 and 12-17 drawn to a method of generating a differentiated human cell wherein human stem cell is isolated using conjugated vascular endothelial growth factor, classified in Class 435, subclass 325 and Class 530, subclass 350.
 - IV. Claims 18, 32, 50 and 54 drawn to a method of enhancing repairing a damaged human tissue and to a method of rejuvenating an age-damage human tissue, classified in Class 424, subclass 93.7, 577; Class 435, subclass 384.
- 4. Groups I- IV are different methods. These inventions are different with respect to ingredients, method steps, and endpoints; therefore, each method is patentably distinct.
- 5. These inventions are distinct for the reasons given above. In addition, they have acquired a separate status in the art as shown by different classification and/or recognized divergent subject matter. Further, even though in some cases the classification is shared, a different field of search would be required based upon the structurally distinct products recited and the various methods of use comprising distinct method steps. Moreover, a prior art search also requires a literature search. It is an undue burden for the examiner to search more than one invention. Therefore restriction for examination purposes as indicated is proper.

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Species Election

6. Applicant is further required under 35 USC 121 (1) to elect a single disclosed species to which the claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

A. If Group I, II or III is elected, Applicant is required to elect a specific to a method of generating a differentiated human cell, wherein: a specific tissue is selected from the group recited in claim 6 and a specific differentiated mammalian cell is selected from the group recited in claim 17.

In addition: (i) if embryonic tissue is selected, Applicant is required to select a specific tissue selected from the group recited in claim 7; (ii) if fetal tissue is selected Applicant is required to select a specific tissue selected from the group recited in claim 8; (iii) if post-natal tissue is selected Applicant is required to select a specific tissue selected from the group recited in claim 9.

These species are distinct because a method of generating a differentiated human cell, wherein: a specific tissue is selected from the group recited in claim 6 and a specific differentiated mammalian cell is selected from the group recited in claim 17 differ with respect to the specific tissue used; thus each specific method employing a specific tissue represents patentably distinct subject matter. Furthermore, the examination of these species would require different searches in the scientific literature.

B. If Group IV is elected, Applicant is required to elect a specific method of repairing a damaged or rejuvenating an age-damage human tissue, wherein the stem cell differentiated to become an specific altered cell selected from the group recited in Claims 18 and 32.

These species are distinct because a specific method of repairing a damaged human tissue, wherein the stem cell differentiated to become an specific altered cell selected from the group recited in Claims 18 and 32 differ with respect to the altered cell; thus each specific method employing a specific altered cell represents patentably distinct subject matter. Furthermore, the examination of these species would require different searches in the scientific literature.

7. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is (703) 308-4232. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014.

Michail Belyavskyi, Ph.D. Patent Examiner Technology Center 1600 February 10, 2003

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600